

## PATENT COOPERATION TREATY

## PCT



## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P044551PCT Gro/cp	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA/416)	
International application No. PCT/NL0200481	International filing date (day/month/year) 17.07.2002	Priority date (day/month/year) 17.07.2001
International Patent Classification (IPC) or both national classification and IPC F03D9/00		
Applicant CEAP B.V. et al.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 5 sheets, including this cover sheet.  
  
☒ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  
  
 These annexes consist of a total of 2 sheets.

3. This report contains indications relating to the following items:
  - I ☒ Basis of the opinion
  - II ☐ Priority
  - III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
  - IV ☐ Lack of unity of invention
  - V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
  - VI ☐ Certain documents cited
  - VII ☐ Certain defects in the international application
  - VIII ☐ Certain observations on the international application

Date of submission of the demand  17.02.2003	Date of completion of this report  27.11.2003
Name and mailing address of the international preliminary examining authority:   European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized Officer  Poock, M  Telephone No. +49 89 2399-2461  

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. **PCT/NL02/00481**

**I. Basis of the report**

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

**Description, Pages**

1-8 as originally filed

**Claims, Numbers**

1-10 received on 08.10.2003 with letter of 08.10.2003

**Drawings, Sheets**

1/2, 2/2 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).  
☐ the language of publication of the international application (under Rule 48.3(b)).  
☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority in written form.  
☐ furnished subsequently to this Authority in computer readable form.  
☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.  
☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:  
☐ the claims, Nos.:  
☐ the drawings, sheets:

**INTERNATIONAL PRELIMINARY  
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International application No. PCT/NL02/00481

5. ☒ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*

**see separate sheet**

6. Additional observations, if necessary:

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Yes: Claims	1-8
	No: Claims	
Inventive step (IS)	Yes: Claims	
	No: Claims	1-8.
Industrial applicability (IA)	Yes: Claims	1-8
	No: Claims	

2. Citations and explanations

**see separate sheet**

**1. Amendments**

The amendments filed with the letter dated 08/10/2003 introduce subject-matter which extends beyond the content of the application as filed, contrary to Article 34(2)(b) PCT. The application contains no basis for the generation of electrical power to "oxidation" of hydrogen and for "operatively connected". For the latter case it is suggested to delete "operatively".

**2. Inventive Step**

- 2.1 The subject-matter of claim 1 is distinguished from the mobile power station disclosed in WO-A-9 420 802 (D1) in that the storage system additionally comprises the features mentioned in lines 11ff of claim 1.

The problem to be solved may be seen as to provide a mobile power station which can continue to supply electrical energy autonomously even in the absence of external energy sources or energy supplies with an increased applicability.

This problem is addressed in DE-A- 3 708 637, eg. column 1, lines 36-40. This document proposes for the solution a hydrogen system as described in claim 1, lines 11ff. In this respect it should be noted that a fuel cell is another term for hydrogen cell, as is also apparent from the description. This document discloses the integration of different kind of energy generation means in one unit, ie the combination of wind energy and hydrogen systems. It is apparent to the skilled person that the same advantages are achieved as in the present application. The person skilled in the art would therefore include these feature in the known mobile power station in order to solve the problem posed, without the exercise of inventive step. By consequence, the subject-matter of claim 1 does not meet the requirements of Article 33 (3) EPC.

- 2.2 The additional features of claims 2 - 8 are known, either from the documents mentioned in the Search Report or by the general expert knowledge. Thus, these claims do not appear to contain any additional features which, in combination with the features of any claim to which they refer, could form subject-matter involving an inventive step.

**3. Miscellaneous**

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EXAMINATION REPORT - SEPARATE SHEET**

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- 3.1 The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
- 3.2 Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents mentioned in the Search Report is not mentioned in the description, nor are these documents identified therein.
- 3.3 The description is not in conformity with the claims as required by Rule 5.1(a)(iii) PCT.

## Claims

08. 10. 2003

1. Mobile power station having a transportable housing provided with: (40)
- a wind turbine and/or
  - 5 ➤ a solar cell panel containing solar cells and
  - storage means for storing electrical energy and delivering electrical energy, wherein the storage means comprise a battery; and wherein the wind turbine and the solar panel, respectively, are operatively connected to the storage means for supplying electrical energy generated by the wind turbine and the solar
  - 10 panel, respectively, to said storage means, characterized in that the storage means further comprise a hydrogen system, and wherein the hydrogen system comprises a hydrogen generator, a hydrogen tank, operatively connected to the hydrogen generator, for storing hydrogen produced using the hydrogen generator, and a fuel cell, operatively connected to the hydrogen tank, for generating
  - 15 electrical energy by oxidation of hydrogen.
2. Mobile power station according to Claim 1, containing a water tank for rainwater, wherein the water tank is operatively connected via a filter system, preferably of the membrane type, to the hydrogen generator.
- 20 3. Mobile power station according to Claim 1 or 2, containing a solar collector panel that is operatively connected to a boiler for hot water.
4. Mobile power station according to claims 3 and 2, wherein the water tank is
- 25 operatively connected to the boiler.
5. Mobile power station according to one of the preceding claims, wherein the transportable housing is a container, such as a 20, 30 or 40 foot freight or sea container.
- 30 6. Mobile power station according to one of the preceding claims, wherein the wind turbine is mounted on the housing and extends upwards from the roof of the housing, or at least can be brought into an active position extending upwards from the roof of the housing.

7. Mobile power station according to Claim 6, wherein the housing has a block-shaped base frame and wherein extendable supports are provided on opposite sides, in particular opposite longitudinal sides, of the housing.

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8. Mobile power station according to one of the preceding claims, wherein the hydrogen system is accommodated in the housing and wherein the housing is provided with vents.

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9. Mobile power station according to one of the preceding claims, wherein the solar cell panel and/or the solar collector panel are/is, or at least can be, mounted on hinges on the outside of the housing.

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10. Mobile power station according to one of the preceding claims, wherein the power station is provided with a connection for filling the tank of a vehicle.

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